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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/694,599	10/23/2000	Timothy Roy Block	IBM / 168	8927
75	90 06/09/2004		EXAMI	NER
Scott A. Stinebruner			BRUCKART, BENJAMIN R	
Wood, Herron & 2700 Carew To	•		ART UNIT	PAPER NUMBER
441 Vine Street Cincinnati, OH 45202-2917			2155 DATE MAILED: 06/09/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary September Septe	<u>, </u>		T-2			
Examiner Benjamin R Bruckart 2155	•	Application No.	Applicant(s)			
Benjamin R Bruckert 2156 Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. If the period for reply specified soors is less than thirty (30) days, are payly white he statistically (40) days with the control of the total of the		09/694,599	BLOCK ET AL.			
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Art Unit: 2155

Detailed Action

Claims 1-20 are pending in this Office Action.

Claims 1-6, 9-15, 18-20 are rejected under 35 U.S.C. 103(a) as being anticipated by U.S. Patent No 6,108,699 by Moiin in view of U.S. Patent No 6,119,163 by Monteiro et al.

Claim 1-5, 9-15, 18-20 are provisionally rejected under the judicially created doctrine of double patenting over claims 7 and 26 of copending Application No. 09/694,586 herein referred to as "586" in view of U.S. Patent No. 6,108,699 by Moiin in further view of U.S. Patent No. 6,119,163 by Monteiro et al.

Specification

The attempt to incorporate subject matter into this application by reference to "the cross related application" is improper because it is blank in the specification, page 1, first paragraph.

The line "______" should be replaced with the application number of the co-pending application.

Allowable Subject Matter

Claims 7-8 and 16 and 17 are allowed.

Response to Arguments

Applicant's arguments with respect to claims 1-6, 9-15, 18-20 have been considered but are most in view of the new ground(s) of rejection.

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Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claim 9 is provisionally rejected under the judicially created doctrine of double patenting over claims 7 and 26 of copending Application No. 09/694,586 herein referred to as "586" in view of U.S. Patent No. 6,108,699 by Moiin in further view of U.S. Patent No. 6,119,163 by Monteiro et al. This is a provisional double patenting rejection since the conflicting claims have not yet been patented.

The subject matter claimed in the instant application is fully disclosed in the referenced copending application and would be covered by any patent granted on that copending application since the referenced copending application and the instant application are claiming common subject matter, as follows:

Regarding claim 9, an apparatus, comprising:

- (a) a memory (586: claim 7a, 26a); and
- (b) a program resident in the memory (586: claim 7b, 26b), the program configured to dynamically modify a fragmentation size cluster communication parameter in a clustered computer system by processing a requested fragmentation size change only after receipt of an acknowledgment message for at least one unacknowledged message sent by a source node to a plurality of target nodes (586: claim 7b, 26b).

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It would have been obvious at the time of the invention to one of ordinary skill in the art to modify a communication parameter as taught by application 586 modifying fragmentation size (Monteiro: col. 7, lines 7-20) as taught by Monteiro in order to accommodate changes in network conditions and while using a threads as taught by Moiin in order to allow for regulate and simplify the sending and receiving of messages (Moiin: col. 14, lines 26-29).

Claims 1-5, 10-14, 18-20 are rejected under the same rationale given above. In the rejections set fourth, the examiner will address the similarities and point to the teachings of 586.

Regarding claim 1, the two applications have preambles that share a method of dynamically modifying a cluster communication parameter in a clustered computer system. Claim 1(a) shares deferring action until receipt of acknowledged message with claim 19(b) and 24 of 586. Claim 1(b) shares with claim 1(c) of 586 "modifying cluster communication parameter."

Regarding claim 2, the method of claim 1, further comprising sending a sync message from the source node to the plurality of target nodes (586: claims 20, 1a), wherein deferring processing of the requested fragmentation size change includes waiting for an acknowledgment message for the sync message from each of the plurality of target nodes (586: claims 1c, 22, 19).

Regarding claim 3, the method of claim 2, wherein the sync message is configured to initiate, upon receipt by each target node, an immediate acknowledgment message from such target node that acknowledges receipt for each unacknowledged message received by such target node (586: claims 1b, 22).

Regarding claim 4, the method of claim 2, wherein processing the requested fragmentation size change includes sending a fragmentation size change message from the source node to the plurality of target nodes (586: claims 1a, 3, 6), the fragmentation size change message configured to modify the fragmentation size cluster communication parameter on each of the plurality of target nodes (586: claim 1c).

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Regarding claim 5, the method of claim 4, wherein processing the requested fragmentation size change further includes modifying the fragmentation size cluster communication parameter on the source node (586: claim 19, 1a).

Regarding claim 10, the apparatus of claim 9, wherein the program is further configured to process the requested fragmentation size change after receipt of the acknowledgment message to modify a fragmentation size cluster communication parameter used in transmitting messages from the source node to the plurality of target nodes (586: claim 1a 1c), and wherein the program is further configured to thereafter send messages from the source node to the plurality of target nodes using the modified fragmentation size cluster communication parameter.

Regarding claim 11, the apparatus of claim 10, wherein the program is further configured to send a sync message from the source node to the plurality of target nodes (586: claims 20, 1a) such that deferring processing of the requested fragmentation size change includes waiting for an acknowledgment message for the sync message from each of the plurality of target nodes (586: claims 1c, 22, 19).

Regarding claim 12, the apparatus of claim 11, wherein the sync message is configured to initiate, upon receipt by each target node, an immediate acknowledgment message from such target node that acknowledges receipt for each unacknowledged message received by such target node (586: claims 1b, 22).

Regarding claim 13, the apparatus of claim 11, wherein the program is configured to process the requested fragmentation size change by sending a fragmentation size change message from the source node to the plurality of target nodes (586: claim 1a), the fragmentation size change message configured to modify the fragmentation size cluster communication parameter on each of the plurality of target nodes (586: claim 1c).

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Regarding claim 14, the apparatus of claim 13, wherein the program is further configured to process the requested fragmentation size change by modifying the fragmentation size cluster communication parameter on the source node (586: claim 19, 1a).

Regarding claim 18, a clustered computer system, comprising:

- (a) a plurality of nodes coupled to one another over a network, the plurality of nodes including a source node and a plurality of target nodes (586: claim 12a);
- (b) a source program resident on the source node, the source program configured to dynamically modify a fragmentation size cluster communication parameter in a clustered computer system by sending a sync message to the plurality of target nodes (586: 12b, 26a and b), thereafter waiting for an acknowledgment message for the sync message from each of the plurality of target nodes (586: claim 26b), thereafter sending a fragmentation size change message to each of the plurality of target nodes to modify a fragmentation size cluster communication parameter on such target nodes used in transmitting messages from the source node to the target nodes (586: claim 1a); and
- (c) a target program resident on each of the plurality of target nodes, the target program configured to send an acknowledgment message to the source node in response (586: claim 7a, 7b, 20, 22), to the sync message to acknowledge receipt for each unacknowledged message received thereby, and to modify a fragmentation size cluster communication parameter associated therewith in response to the fragmentation size change message (586: claim 1, 20, 22).

Regarding claim 19, a program product (586: claim 13), comprising:

- (a) a program configured to dynamically modify a fragmentation size cluster communication parameter in a clustered computer system by processing a requested fragmentation size change only after receipt of an acknowledgment message for at least one unacknowledged message sent by a source node to a plurality of target nodes (586: claim 13a); and
 - (b) a signal bearing medium bearing the program (586: claim13b).

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Regarding claim 20, the program product of claim 19, wherein the signal bearing medium includes at least one of a transmission medium and a recordable medium (586: claim 14).

Furthermore, there is no apparent reason why applicant would be prevented from presenting claims corresponding to those of the instant application in the other copending application. See *In re Schneller*, 397 F.2d 350, 158 USPQ 210 (CCPA 1968). See also MPEP § 804.

Claims 1-6, 9-15, 18-20 are rejected under 35 U.S.C. 103(a) as being anticipated by U.S. Patent No 6,108,699 by Moiin in view of U.S. Patent No 6,119,163 by Monteiro et al.

Regarding claim 1,

The Moiin reference teaches a method of dynamically modifying a cluster communication parameter in a clustered computer system (Moiin: col. 2, lines 10-20; col. 14, lines 2-15; col. 5, lines 56-61; cluster size), the method comprising:

- (a) deferring processing of a requested change until receipt of an acknowledgment message for at least one unacknowledged message sent by a source node to a plurality of target nodes (Moiin: col. 2, lines 29-34);
- (b) thereafter processing the requested fragmentation size change to modify a cluster communication parameter used in transmitting messages from the source node to the plurality of target nodes (Moiin: col. 2, lines 34-38, 44-50); and
- (c) thereafter sending messages from the source node to the plurality of target nodes using the modified cluster communication parameter (Moiin: col. 2, lines 34-38, 16-20; col. 7, lines 53-61; col. 8, lines 38-51).

The Moiin reference does not explicitly disclose a fragmentation size.

The Monteiro reference teaches modify fragmentation size (Monteiro: col. 7, lines 7-20).

The Monteiro reference further teaches modifying fragmentation size adapts to changes in network conditions to reduce packet loss (Montiero: col. 7, lines 7-37).

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Therefore it would have been obvious at the time of the invention to one of ordinary skill in the art to create the system of dynamically modifying a cluster communication parameter as taught by Moiin while modifying the packet size as taught by Monteiro in order to adjust to network conditions and reduce packet loss (Montiero: col. 7, lines 7-37).

Claims 2-4 are rejected under the same rationale given above. In the rejections set fourth, the examiner will address the additional limitations and point to the relevant teachings of Monteiro et al and Moiin.

Regarding claim 2, the method of claim 1, further comprising sending a sync message from the source node to the plurality of target nodes (Moiin: col. 2, lines 16-20), wherein deferring processing of the requested fragmentation size change includes waiting for an acknowledgment message for the sync message from each of the plurality of target nodes (Moiin: col. 2, lines 29-33).

Regarding claim 3, the method of claim 2, wherein the sync message is configured to initiate, upon receipt by each target node, an immediate acknowledgment message from such target node that acknowledges receipt for each unacknowledged message received by such target node (Moiin: col. 2, lines 44-50).

Regarding claim 4, the method of claim 2, wherein processing the requested fragmentation size change includes sending a fragmentation size change message from the source node to the plurality of target nodes (Moiin: col. 2, lines 16-20; petitioning node to petitioned nodes), the fragmentation size change message configured to modify the fragmentation size cluster communication parameter on each of the plurality of target nodes (Moiin: col. 2, lines 44-50).

Regarding claim 5, the method of claim 4, wherein processing the requested fragmentation size change further includes modifying the fragmentation size cluster communication parameter on the source node (Moiin: col. 7, lines 53-61).

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Regarding claim 6, the method of claim 4, wherein the source node comprises a message queue (Moiin: col. 13, lines 60- col. 14, line 7, sender and receiver threads), and wherein sending the sync message includes placing the sync message on the message queue and sending the fragmentation size change message includes placing the fragmentation size change message on the message queue (Moiin: col. 13, lines 60- col. 14, line 7; message to be broadcast in sending thread).

Regarding claim 9,

The Moiin reference teaches an apparatus (Moiin: col. 4, lines 25-32), comprising:

- (a) a memory (Moiin: col. 4, lines 26); and
- (b) a program resident in the memory (Moiin: col. 4, lines 15-18), the program configured to dynamically modify a cluster communication parameter in a clustered computer system (Moiin: col. 2, lines 16-20; col. 14, lines 2-15) by processing a requested change only after receipt of an acknowledgment message for at least one unacknowledged message sent by a source node to a plurality of target nodes (Moiin: col. 2, lines 29-34, lines 44-50).

The Moiin reference does not explicitly disclose a fragmentation size.

The Monteiro reference teaches modify fragmentation size (Monteiro: col. 7, lines 7-20).

The Monteiro reference further teaches modifying fragmentation size adapts to changes in network conditions to reduce packet loss (Montiero: col. 7, lines 7-37).

Therefore it would have been obvious at the time of the invention to one of ordinary skill in the art to create the system of dynamically modifying a cluster communication parameter as taught by Moiin while modifying the packet size as taught by Monteiro in order to adjust to network conditions and reduce packet loss (Montiero: col. 7, lines 7-37).

Claims 9-14 are rejected under the same rationale given above. In the rejections set fourth, the examiner will address the additional limitations and point to the relevant teachings of Monteiro et al and Moiin.

Regarding claim 10, the apparatus of claim 9, wherein the program is further configured to process the requested fragmentation size change after receipt of the acknowledgment message to modify a fragmentation size cluster communication parameter used in transmitting messages

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from the source node to the plurality of target nodes (Moiin: col. 2, lines 44-50; col. 2, lines 32-34; Figure 4, tag 406), and wherein the program is further configured to thereafter send messages from the source node to the plurality of target nodes using the modified fragmentation size cluster communication parameter (Moiin: col. 2, lines 34-38, 16-20; col. 7, lines 53-61; col. 8, lines 38-51).

Regarding claim 11, the apparatus of claim 10, wherein the program is further configured to send a sync message from the source node to the plurality of target nodes such that deferring processing of the requested fragmentation size change includes waiting for an acknowledgment message for the sync message from each of the plurality of target nodes (Moiin: col. 2, lines 29-34, 44-50).

Regarding claim 12, the apparatus of claim 11, wherein the sync message is configured to initiate, upon receipt by each target node, an immediate acknowledgment message from such target node that acknowledges receipt for each unacknowledged message received by such target node (Moiin: col. 2, lines 44-50).

Regarding claim 13, the apparatus of claim 11, wherein the program is configured to process the requested fragmentation size change by sending a fragmentation size change message from the source node to the plurality of target nodes (Moiin: col., lines), the fragmentation size change message configured to modify the fragmentation size cluster communication parameter on each of the plurality of target nodes (Moiin: col., lines).

Regarding claim 14, the apparatus of claim 13, wherein the program is further configured to process the requested fragmentation size change by modifying the fragmentation size cluster communication parameter on the source node (Moiin: col. 7, lines 53-61).

Regarding claim 15, the apparatus of claim 13, further comprising a message queue resident on the source node (Moiin: col. 13, lines 60- col. 14, line 7; sender and receiver threads), wherein the program is configured to send the sync message and the fragmentation size change

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message by placing the sync message and the fragmentation size change message on the message queue (Moiin: col. 13, lines 60- col. 14, line 7; message to be broadcast in sending thread).

Regarding claim 18,

The Moiin reference a clustered computer system, comprising:

- (a) a plurality of nodes coupled to one another over a network, the plurality of nodes including a source node and a plurality of target nodes (Moiin: col. 3, lines 64- col. 4, line 1; Figure 1);
- (b) a source program resident on the source node (Moiin: col. 4, lines 15-18), the source program configured to dynamically modify a cluster communication parameter in a clustered computer system by sending a sync message to the plurality of target nodes (Moiin: col. 2, lines 16-20; col. 14, lines 2-15), thereafter waiting for an acknowledgment message for the sync message from each of the plurality of target nodes (Moiin: col. 2, lines 29-34, 44-50), thereafter sending a change message to each of the plurality of target nodes to modify a cluster communication parameter on such target nodes used in transmitting messages from the source node to the target nodes (Moiin: col. 2, lines 29-38); and
- (c) a target program resident on each of the plurality of target nodes (Moiin: col. 4, lines 15-18), the target program configured to send an acknowledgment message to the source node in response (Moiin: col. 2, lines 44-50), to the sync message to acknowledge receipt for each unacknowledged message received thereby, and to modify a cluster communication parameter associated therewith in response to the change message (Moiin: col. 2, lines 39-40).

The Moiin reference does not explicitly disclose a fragmentation size.

The Monteiro reference teaches modify fragmentation size (Monteiro: col. 7, lines 7-20).

The Monteiro reference further teaches modifying fragmentation size adapts to changes in network conditions to reduce packet loss (Montiero: col. 7, lines 7-37).

Therefore it would have been obvious at the time of the invention to one of ordinary skill in the art to create the system of dynamically modifying a cluster communication parameter as taught by Moiin while modifying the packet size as taught by Monteiro in order to adjust to network conditions and reduce packet loss (Montiero: col. 7, lines 7-37).

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Regarding claim 19,

The Moiin reference teaches a program product (Moiin: col. 4, lines 25-32), comprising:

- (a) a program configured to dynamically modify a cluster communication parameter in a clustered computer system (Moiin: col. 2, lines 16-20; col. 14, lines 2-15) by processing a requested change only after receipt of an acknowledgment message for at least one unacknowledged message sent by a source node to a plurality of target nodes (Moiin: col. 2, lines 29-34, 44-50); and
 - (b) a signal bearing medium bearing the program (Moiin: col. 4, lines 58-66).

The Moiin reference does not explicitly disclose a fragmentation size.

The Monteiro reference teaches modify fragmentation size (Monteiro: col. 7, lines 7-20).

The Monteiro reference further teaches modifying fragmentation size adapts to changes in network conditions to reduce packet loss (Montiero: col. 7, lines 7-37).

Therefore it would have been obvious at the time of the invention to one of ordinary skill in the art to create the system of dynamically modifying a cluster communication parameter as taught by Moiin while modifying the packet size as taught by Monteiro in order to adjust to network conditions and reduce packet loss (Montiero: col. 7, lines 7-37).

Claim 20 is rejected under the same rationale given above. In the rejections set fourth, the examiner will address the additional limitations and point to the relevant teachings of Monteiro et al and Moiin.

Regarding claim 20, the program product of claim 19, wherein the signal bearing medium includes at least one of a transmission medium and a recordable medium (Moiin: col. 5, lines 9-19; col. 4, lines 28-32).

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Benjamin R Bruckart whose telephone number is (703) 305-0324. The examiner can normally be reached on 8:00-5:30 PM with every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hosain Alam can be reached on (703) 308-6662. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-0324.

Benjamin R Bruckart Examiner Art Unit 2155 brb \$4.6 June 7, 2004

> HOSAIN ALAM SUPERVISORY PATENT EXAMINER